

PATENT
INSTITUT FRANÇAIS DU PÉTROLE
IMPROVED DEVICE FOR MIXING AND DISTRIBUTING A GAS PHASE AND A
LIQUID PHASE SUPPLIED TO A GRANULAR BED

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A B S T R A C T

The present invention concerns an improved device for mixing and distributing a gas phase and a liquid phase over a granular bed described in a prior application.

The improvement essentially consists of employing an annular peripheral zone inside a reactor via which liquid is introduced and which acts as a buffer zone against fluctuations in the flow of the liquid phase.

The invention also concerns a catalytic bed chemical reactor using said device, and a process for chemical conversion, in particular for the hydrotreatment of hydrocarbons using said reactor.

Figure 1 to be published.